EIL systems

WE BRING LIGHT ANYWHERE

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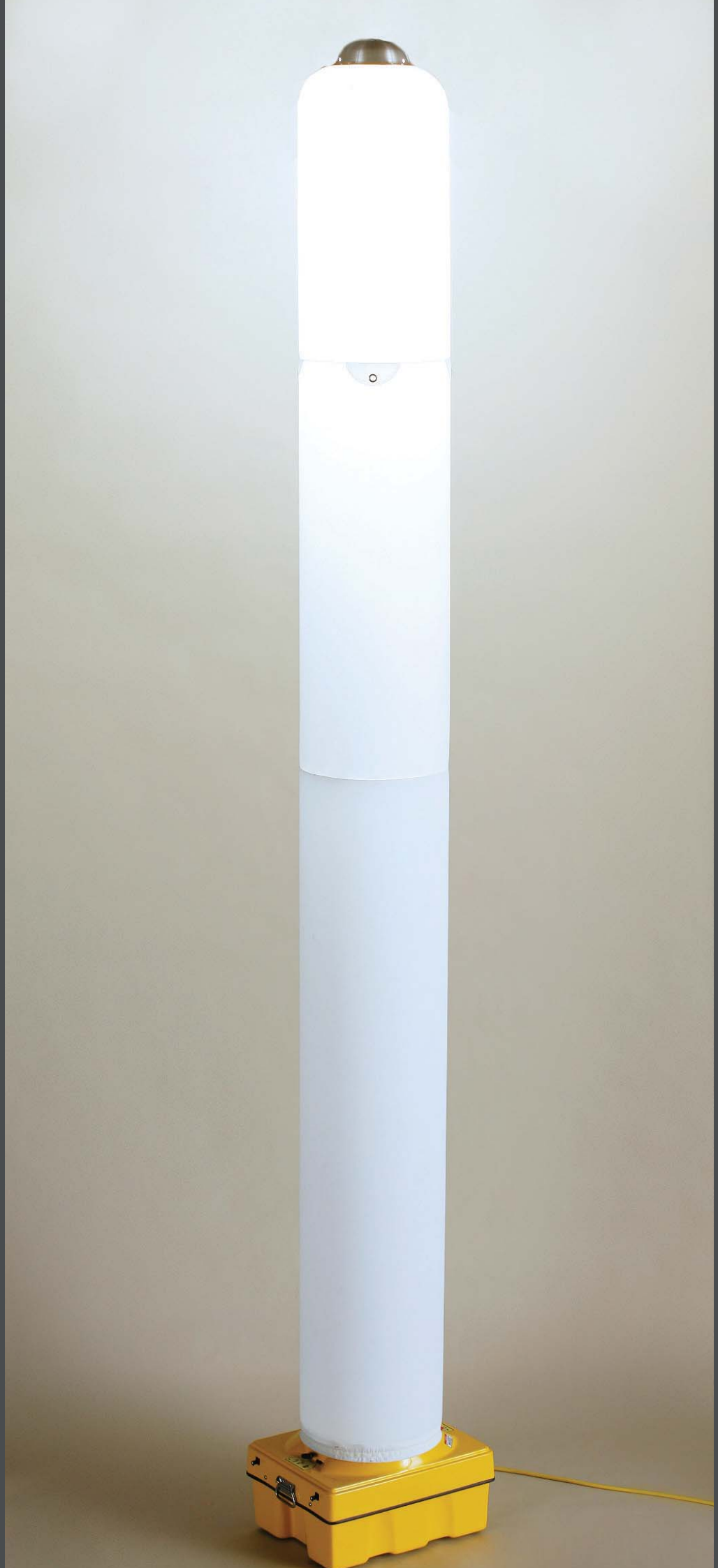
TL LUMINITE STANDARD

TL LUMINITE PROFESSIONAL



OUR PRINCIPLES
LIGHTNESS, EASE, POWER, PORTABILITY

EIL Systems has patented and produced professional mobile units for technical lighting in large areas. These units have a cylindrical load-bearing structure with air constantly blown in under pressure. In just 15 seconds, with no metal parts to assemble, it brings one or several powerful light sources to the operating height of two/four/five metres, thereby allowing large areas to be lit up with low-beam light at 360° or concentrated and pointed in any direction. Simple and effective. So simple that you can carry it in the boot of a small car. So effective that it passed the strictest tests in terms of scenarios involving earthquakes, floods and humanitarian emergencies all over the world. It's hard to make simple things.

The EIL SYSTEMS range comprises lighting tower models that are either mains-powered or have a built-in generator, either petrol or diesel-powered and a range of accessories to secure them to mobile platforms such as lorries, earth-moving machines, forklift trucks, quads and mobile equipment in general. Special surfaces with customised messages and logos can be applied for routine and/or emergency warnings.

The TL LUMINITE STANDARD 2014 is the new advanced model with ABS casing that guarantees complete insulation from external agents. New protection filters, new safety features and a wide range of accessories allow the new series to be used in any situation and can be installed either permanently or temporarily on vehicles such as cars, boats, operators and quads with a simple accessory.

In the TL LUMINITE PROFESSIONAL we have used all our experience gained to date together with suggestions from those who work daily in the most critical situations. We have combined our light power with the most advanced video transmission systems by eliminating the need to use infrared, increased the security systems, adopted UPS, perfected the production techniques of the fabric carrier and the control systems

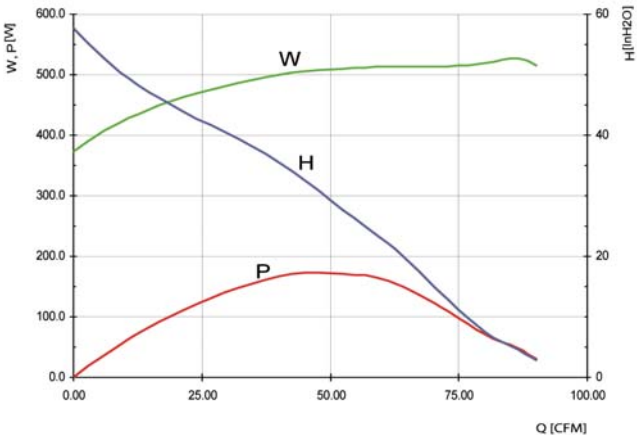
Without renouncing our four principles: lightness, ease, power and portability.

EIL SYSTEMS lighting tower system is covered and protected by a series of approved international patents, 32 innovative technical solutions and more than 40 intellectual property claims recognised and approved in 37 countries across the world.

TL LUMINITE STANDARD
TL LUMINITE PROFESSIONAL

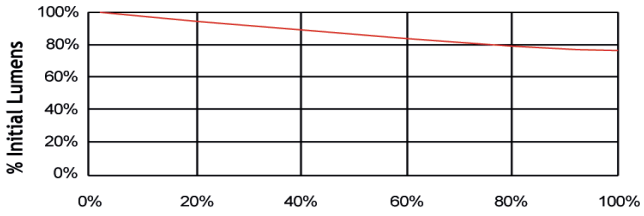
CHASSIS	
Chassis	ABS + PMMA
Cover	ABS + PMMA
Colour	White
Size	460x620x620 mm
Weight	32/35* Kg
Dust filter (number)	4+1
Exhaust valve humidity	yes
TOWER	
Material	Nylon M1 fire-retardant double resin-coated
Porosity fabric	0
Height	2500/3750* mm
Diameter	400 mm
Top end hole	200 mm
Operative height	2800/4100* mm
EXTENSION SYSTEMS	
Type	EIL Systems Inflatable tower
Power motor	500 W x 1
Complete extension time (seconds)	15 Seconds
CES (Controlled Elevetion Systems)	3 sectors
CLS (Controlled Lovering Systems)	2 sectors
Pressure	max 60 mb
Deflation valve	yes
LAMP	
Type	Type “O” bulb protection anti UV explosion protection
Control Gear	Mercury ballast + Ignitor
Power supply	230 V 50Hz
Light source	HID 875 halogen vapour
Power	875W / 875+875W*
Light Output	95000/190000* lm
Lamp Lumens Per Watt	109
Rated Life	20000 h
Correlated Colour	4000 K
Chromnaticity (CIE - XY)	385, 390
Colour Rendering Index (CRI) or (RA)	68
Typical Warm Up Time	3-5 Minutes
Restrike	5-7 Minutes
LAMP PROTECTIONS	
Connection	reinforcement in cement hight temperature resistant
Cage	metallic thread D 3 mm - H 290 mm - D 200 mm
Bulb protection	with additional glass cilinder antiexplosion
Shokproof	rubber o-ring and strips connection cage/tube
Unscrewingproof	yes

FAN PERFORMANCE



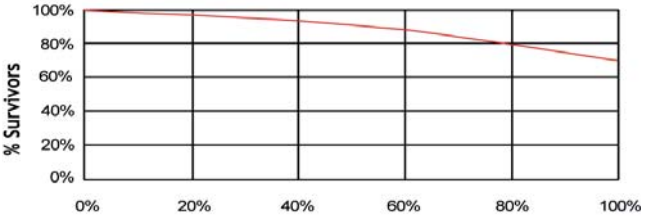
W= Input W H= Vacuum (InH2O) P= Airwatt W

RATED POWER VARIATION ON 20,000 HOURS

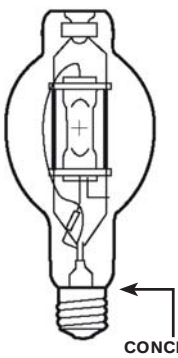


LIFE TIME % LIFE TIME

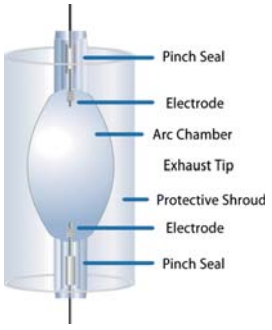
RATED POWER VARIATION ON 20,000 HOURS



% LIFE TIME



CONCRETE REINFORCEMENT

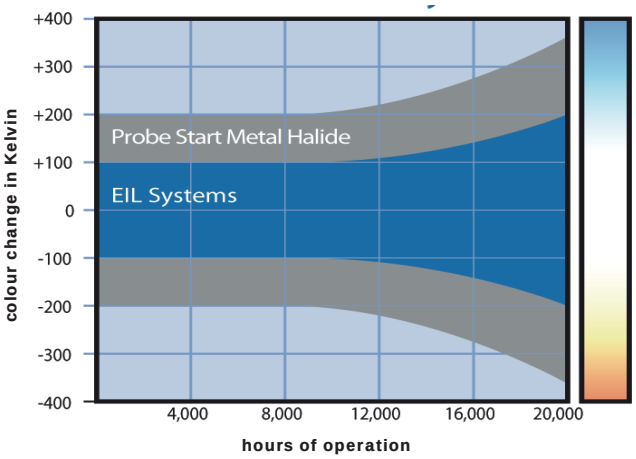


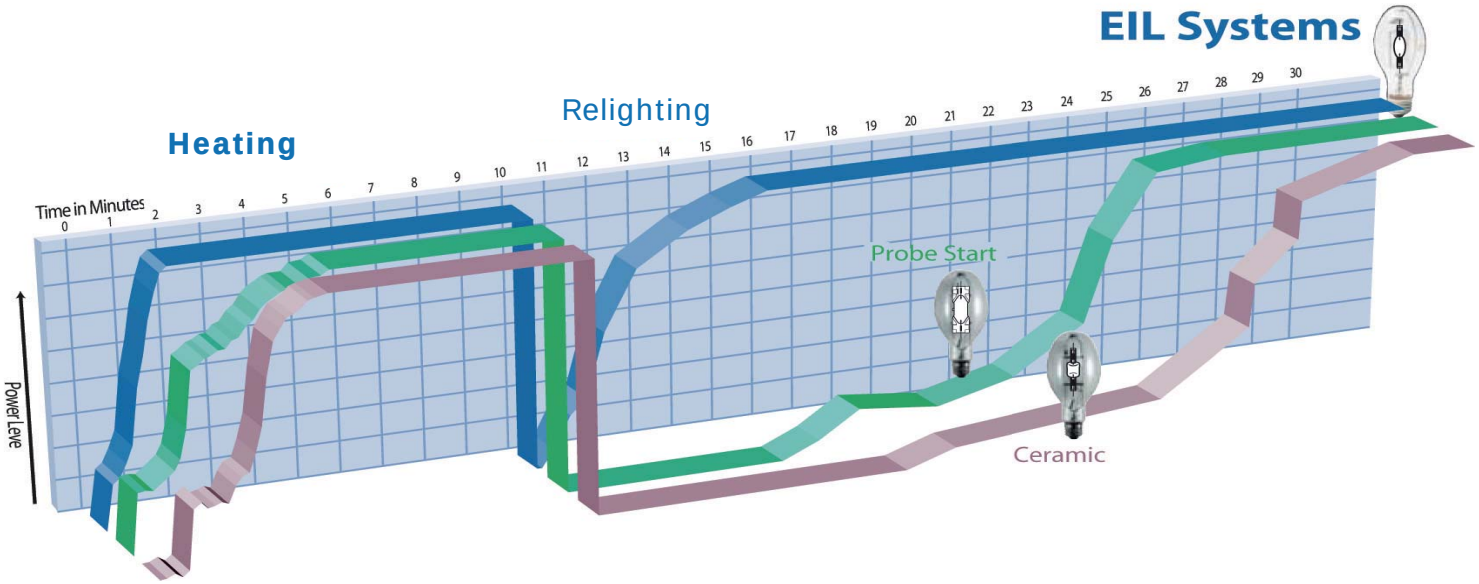
BALLAST SPECIFICATION	
Power supply	230V ± 10%
Temperature ratings	90°
Power Factor (min)	85%
Input Watts	970W
Operating temperature	-30°C +105°C
WIND RESISTANCE	
Without bracing cable	20/25 km/h
With bracing cable	75/110 km/h
ACCESSORIES SUPPLIED	
Standard rods	Yes
Bracing cables	Yes
Repair kit	Yes

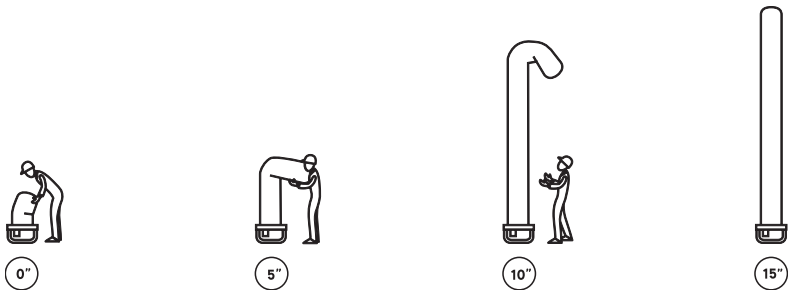
* The first data refers to the standard version, the second to the professional version

** data on the internal ballast. For the additional lamp of the professional version, an electronic ballast is used, the specifications of which are given in this booklet

COLOUR CONSISTENCY







Document date: October 2013 - the published data may be subject to change
The official data is published in the user manual supplied with the product

EIL SYSTEMS Srl

WHAT WE NEED ARE 15 SECONDS

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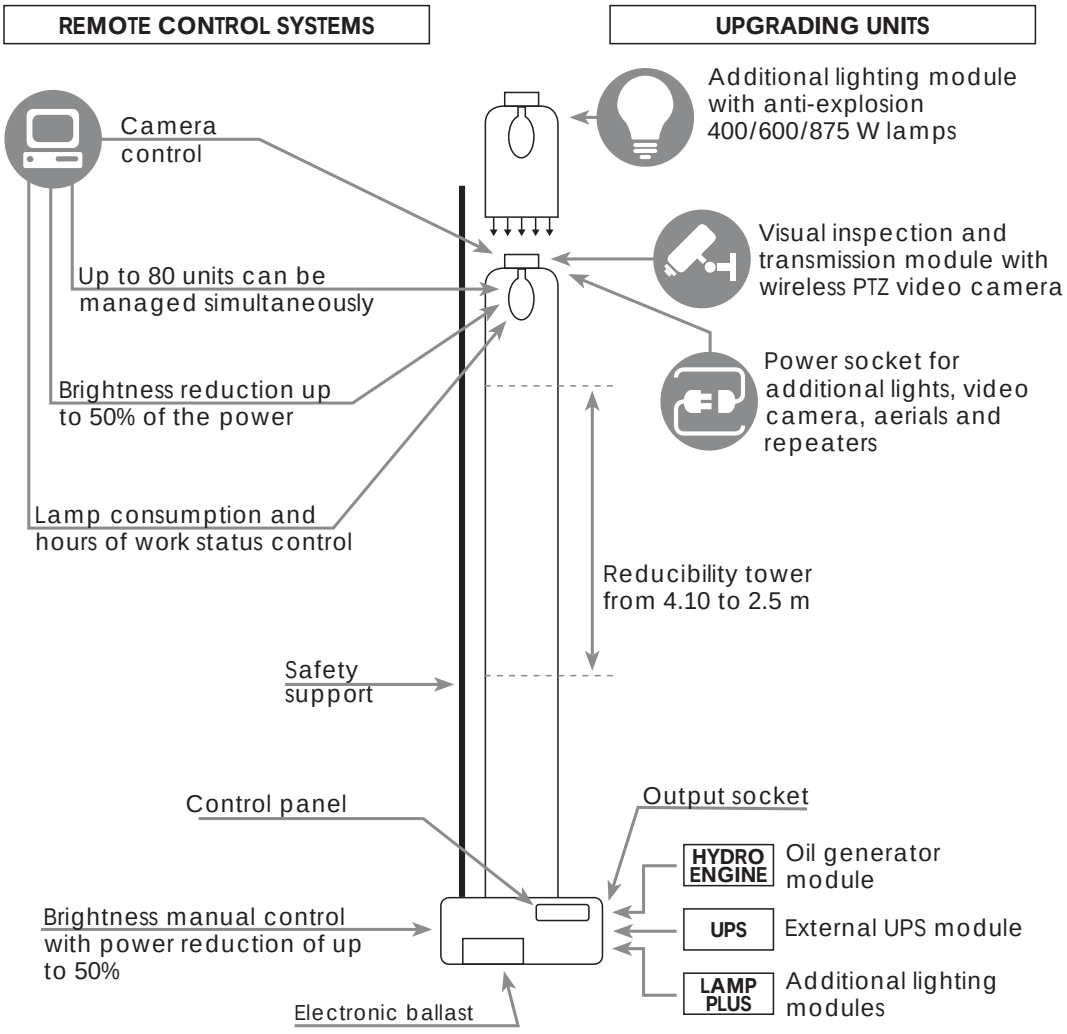
TL LUMINITE PROFESSIONAL

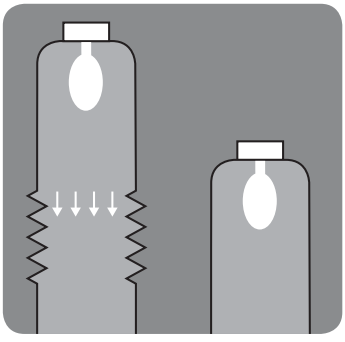
The TL Luminite Professional differs from the standard version by a number of technical solutions - as standard - to meet different needs:

- Various height hinges to change the height of the structure in seconds
- 220V input and output plugs to double the light power
- Power connection to install a 3G wireless transmission video camera
- Use of special accessories


REMOTE CONTROL SYSTEMS
UPGRADING UNITS
Additional lighting module with anti-explosion 400/600/875 W lamps
Camera control
Visual inspection and transmission module with wireless PTZ video camera
Up to 80 units can be managed simultaneously
Power socket for additional lights, video camera, aerials and repeaters
Brightness reduction up to 50% of the power
Lamp consumption and hours of work status control
Reducibility tower from 4.10 to 2.5 m
Safety support
Control panel
Output socket
HYDRO ENGINE
Oil generator module
UPS
External UPS module
LAMP PLUS
Additional lighting modules
Brightness manual control with power reduction of up to 50%
Electronic ballast

The diagram summarises the specifics of the TL Luminite Professional

A FEW SECONDS TO CHANGE THE HEIGHT



Works in any situation

Sometimes it is necessary to light internal areas with low ceilings. The TL Luminite Professional is equipped with a system that allows the operator to reduce the operational height in a few seconds. Two hinges placed at different heights can be connected to each other bringing the operating height to 2.5 - 3 m.

LUMINITE ALL CONDITION REMOTE VISION

The best way to connect the intervention scenario to the control centre in real time

The TL Luminite Professional comes with 12 V connections on the top as standard for the installation of a remote control PTZ video camera available as an accessory. The kit includes: video camera, support for installation on the TL Luminite Professional, router, USB flash drive (SIM card to be purchased separately). IP technology will give you the ability to remotely control your video camera using mobile devices such as: Computers, Notebooks, Smart Phones, Tablet Pc equipped with browsers for Web browsing.

The system allows for rapid installation in seconds and the immediate transmission of high resolution images of the lit scenario to the operation centre. The remote control allows the operator to monitor the entire area of the intervention and to take action using the most appropriate support choices and decisions.

Connection and operating mode

The video camera starts up with the powering on of the TL Luminite Professional, which illuminates the area of the intervention up to 60 m from the source at 360°. The router will automatically send the connection link via e-mail to the operating centre, the operator receives the images and can control: 360° horizontal rotation, vertical rotation up to 90°, image zoom.

Features of the video camera

- Wireless IP 65 video camera complete with mounting brackets on the top of the TL Luminite Professional
- Integrated power connection cable
- 720p HD video with 3x optical zoom
- PTZ 355 horizontal degree with remote control - Viewing angle: 30-60 degrees
- Pan angle / Tilt: Horizontal: 360° Vertical: 90 degrees
- Risoluzione: 1280x720 (720p), 640x480 (VGA), 320x240 (QVGA)
- Image Frame Rate: 25 FPS (720p), 25 fps (VGA), 25 fps (QVGA)
- Compression: H.264
- Video parameters: Brightness, contrast
- Operating temperature: -10-50 degrees Celsius
- Operating humidity: up to 95%
- Lens: f: 4-9mm

Connection

- Wi-Fi: IEEE 802.11b/g/n
- Ethernet: interface RJ-45 10/100Mbps
- Supported protocols: HTTP / DHCP / IP / TCP / UDP / FTP / SMTP / DDNS / UPnP / ONVIF / RTSP
- Wireless security: WEP/WPA/WPA2 and remove 64/128bit
- Monitoring from smart phones: Android and iOS

Router

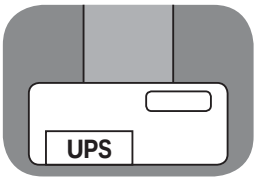
- 3G/4G connection sharing
- Wireless N speed up to 150Mbps
- IP-based bandwidth control for performance regulation
- Mini USB port that enables connection and power supply from laptop or power adapter
- 3G/4G Router Mode, WISP Client Router, AP

UPS

Safety in the event of a power failure

To keep the system operational even in the event of a power blackout, two systems are provided that guarantee continuous operation. The first is installed as standard on the TL Luminite Professional and has the function of keeping the pressure fans operational. An external accessory allows you to maintain both the fans and the brightness, guaranteeing efficient structure and lighting for 10 minutes.

STANDARD INTEGRATED UPS



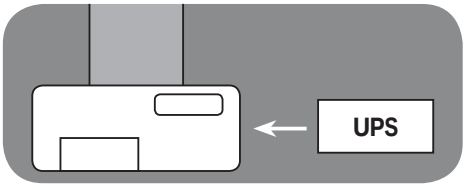
For pressure continuity and to maintain the load bearing structure

In case of black-out, the Luminite series activates several devices for an automatic descent, slow and controlled from the structure to the floor. The TL Luminite Professional is equipped with an additional element - fitted as standard - consisting of an integrated UPS unit that maintains the internal pressure and the structure stable for about two minutes by continuing to operate the internal fan.

Technical features:

INPUT	
Nominal power	800 VA
Voltage	220-240 Vac
Voltage tolerance	230 Vac (+ 20 / - 25%)
Frequency	50/60 Hz with automatic selection
OUTPUT AND INVERTER OUTPUT	
Nominal power	800 VA
Active power	480 W
Phase number	1
Waveform from battery	Pseudo sine wave
Operating frequency from battery	50 or 60 Hz (± 1%)
BATTERIES	
Type	Sealed lead acid maintenance free
Charging time	2÷4 h
ENVIRONMENT	
Max altitude	6000 m max altitude
Communication	USB
Safety compliance	EN 62040-1 and directives EEC 73/23
EMC compliance	EN 62040-2 cl.B and directives 89/336 EEC, 92/31 EEC, 93/68 EEC
Degree of protection	1
Operating temperature:	0 ÷ 40 °C
Relative humidity	0-95% non-condensing
FEATURES	
Weight	3,2 Kg
Minimum life with internal batteries	2* min

EIL SYSTEMS POWER SOURCE



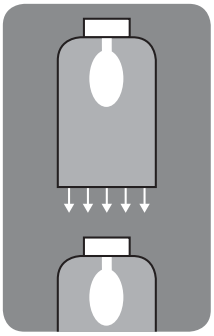
For pressure and brightness continuity

Maintaining brightness in the event of a power failure - for the high installed power, a significant supply of batteries in an external container is required. While the internal UPS powering the fan guarantees the stability of the mast for 2 minutes, EIL Systems has provided an external UPS that allows you to also keep the lamp on for a time ranging between 10 and 15 minutes. Equipping the system with an electronic ballast allows for considerable energy saving.

FOR 875W LAMP 10/15 MIN BATTERY LIFE

- Nominal supply voltage 220-240VAC
- Minimum supply voltage: 164VAC
- Tolerance +/- 20%
- Automatic section 50-60Hz
- Voltage during battery operation 230Vac +/-10%
- Frequency during battery operation 50-60Hz +/- 1%
- Waveform: pseudo sine wave
- Battery type: VRLA AGM lead acid Maintenance free
- Full charge time: from 4 to 6 hours
- Protection from excessive battery discharge - overload - short circuit
- CE mark
- Standard EN 62040-1 1-2-3
- Weight 40 Kg

ADDITIONAL LAMP KIT



To double the brightness up to 190000 lumens with dual lamp

The TL Luminite Professional is designed with standard connections to accommodate an additional 95,000 Lumen lamp on top of the structure. The installation time required is approx. 20 seconds. The kit includes the lamp module and an external electronic ballast. The brightness of the module can be reduced by up to 50% with the integrated electronic device. The two lamps can be powered on simultaneously or singularly.

Advantages

- Option of three different levels of brightness: 95000 lm, 142500 lm, 190000 lm
- Use of double life lamps compared with single lamps of equal power output
- Safety in the event of a lamp crash
- Optimisation of light and luminance flux
- Using the maximum power only as needed with consequent reduction in consumption
- Greater efficiency thanks to the electronic control system

Installation mode

The TL Luminite Professional has a hinge as standard on the top. The additional module is installed by joining the two hinges. There is an input socket on the base for additional power supply.

Additional lamp module

Module length 70 cm
Lamp: 875 W HID bulb with double protection. O Type class. Anti UV
Additional power output: from 47500 to 95000 lm controllable from the Fabric reactor
Cloth: Fireproof Class M1
Operational height of the additional lamp: 4800 mm

Electronic power ballast

The electronic ballast supplied with the extra lamp kit reduces actual consumption by 30% and allows you to vary the power output as required. This means that the brightness of the lamp can be reduced by up to 50%. The product is in class IP65 and can therefore be used outdoors without the need for protection. The use of this system - unique in the field of discharge lamps of this power - allows you to obtain a luminous flux which is controllable and progressive from 95000 up to 190000 lumens

TL LUMINITE STANDARD
TL LUMINITE PROFESSIONAL

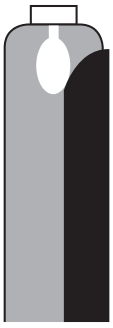
EXTRAS

Base installation on asphalt

System installation on asphalt surfaces with aluminium structure with extendible arms and anchor points. Excellent for installations in urban centres and airports. Closed dimensions: 53x67x7 cm. Open dimensions: 340x340x7 cm. Installation time 120 seconds

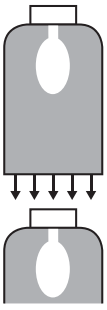
Event kit

Kit for events with an audience made up of: support base with folding arms, barrier posts, plastic isolation chain, Track Pole, generator unit LUMINITE Source. Installation time 240 seconds



Shielding

Shielding strips for orientation of the light beam for interventions on roads, railways and in all situations where you need to focus and/or direct the light beam. Available with various angles and dimensions. Velcro connection at all heights. Installation time: 15 seconds



Light Plus

Kit for TL Luminite Professional to double the light output from 95000 to 190000 lumens. Consisting of: light module with 875 W lamp protection, cable connection, electronic ballast, power supply cable.
Installation time: 3 minutes

Data and image transmission kit

Can be installed on the TL Luminite Professional. The Kit includes: PTZ wireless camera, connection system to the TL Luminite Pro, router, port-adapter, power cables and fastening systems. Allows you to transmit images and data of the illuminated scenario to remote locations. The operator controls the movements of the video camera. Installation time: 5 minutes.

Fastening base

Fibreglass tray with holes so it can be fastened to the platforms of Pick-Ups, Quads, agricultural machinery, automobiles and allows for the mobile use of the TL Luminite in various situations. The base remains fixed and the TL Luminite can be inserted or removed as required. Two taut elastics keep the base and the TL Luminite together.

T-Way

Structure fabric coverings in different colours for special events or to protect the main pipe. They can be easily washed and re-used. Installation time: 2 minutes

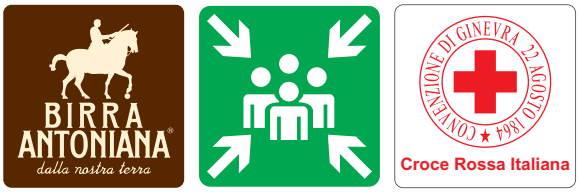
Electronic ballast

Newly developed electronic ballast for high power discharge lamps with the option to remotely control system functionality and the intensity of the light flux. Equips the Light Plus Kit

Helical pegs

There are special high seal pegs available to anchor on sand and loose soil.

Banner



Signal and/or advertising banner which can be installed at any height and size. Velcro closure and keeping the position tight to the structure surface. Installation time: 15 seconds

Track Pole

Set of modular stainless steel tubes to package the lamp support mast. The mast (total height 3.5 m) can be used to support the load bearing structure - open and ready to use - without active pressure fans and/or as part of an additional anti crash safety element. Installation time 60 seconds.

EIL Systems srl
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